



IOS #12

SHEET 1 OF 1

FORM PTO-1449 OCT 18 2002	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UMACH.003A	APPLICATION NO. 09/843,025
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Chen-Wei Chiu et al.	
		FILING DATE April 25, 2001	GROUP 2829

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
SBG	1	US 2002/0018613	02/14/02	Bozler et al	—	—	
SBG	2	US 5,226,099	07/06/93	Mignardi	—	—	
SBG	3	US 6,172,797 B1	01/09/01	Huibers	—	—	
SBG	4	US 6,201,629 B1	03/13/01	McClelland et al.	—	—	
SBG	5	US 6,205,267 B1	03/20/01	Aksuyk et al	—	—	
SBG	6	US 6,307,663 B1	10/23/01	Kowarz	—	—	
SBG	7	US 6,351,329 B1	02/26/02	Greywall	—	—	
SBG	8	US 6,396,619 B1	05/28/02	Huibers et al.	—	—	
SBG	9	US 6,407,851 B1	06/18/02	Islam et al.	—	—	
SBG	10	US 6,424,450 B1	07/23/02	Goossen	—	—	
SBG	11	US 6,433,917 B1	08/13/02	Mei et al.	—	—	

FOREIGN PATENT DOCUMENTS							
EXAMINER		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
<del>INITIAL</del>							YES NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
SBG	12	PCT International Search Report dated September 16, 2002
SBG	13	PCT International Search Report dated September 24, 2002

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EXAMINER	<i>SBG</i>	DATE CONSIDERED	<i>5/14/03</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

FORM PTO-1449 <b>O I P E</b> APR 26 2002 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UMACH.003A	APPLICATION NO. 09/843,025
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Chiu, et al.	
		FILING DATE April 25, 2001	GROUP 2829

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
SBG	4,386,244	05/31/83	Murakami, et al.	—	—		
SBG	5,322,258	06/21/94	Bosch, et al.	—	—		
SBG	5,398,011	03/14/95	Kimura, et al.	—	—		
SBG	5,601,893	03/26/96	Laermer, et al.	—	—		
SBG	5,557,132	09/17/96	Takahashi	—	—		
SBG	5,629,918	05/13/97	Ho, et al.	—	—		
SBG	5,724,015	03/03/98	Tai, et al.	—	—		
SBG	5,872,496	02/16/99	Asada, et al.	—	—		
SBG	6,136,212	10/24/00	Mastrangelo, et al.	—	—		
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
SBG	Free-Space Micromachined Optical Switches for Optical Networking, L.Y. Lin, E.L. Goldstein, and R. W. Tkach, IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, Vol. 5, No. 1, January/February 1999, pp. 4-9.
SBG	Hybrid-integrated laser-diode micro-external mirror fabricated by (110) silicon micromachining, Y. Uenishi, M. Tsugai, and M. Mehregany, ELECTRONICS LETTERS, 8th June 1995, Vol. 31, No. 12, pp. 965-966.
SBG	Integrated Parylene Micro Electro Mechanical Systems (MEMS), Xuan-Qi Wang, California Institute of Technology, Pasadena, California, 2000, pp. 1-14.
SBG	Laser diode wavelength locking using a micromachined silicon mirror, Neila Kaou, Cedrick Chappaz, Skandar Basrour, and Michel de Labachelerie, Part of the Symposium on Design, Test, and Microfabrication of MEMS and MOEMS, Paris, France, March-April 1999, pp. 765-772.
SBG	Microactuators with moving magnets for linear, torsional or multiaxial motion, B. Wagner, W. Benecke, G. Engelmann, and J. Simon, SENSORS AND ACTUATORS A, Vol. 32, 1992, pp. 598-603.
SBG	Optical and Surface Characterization of Poly-Si Replica Mirrors for an Optical Fiber Switch, Makoto Mita, Philippe Hélin, Daisuke Miyauchi, Hiroshi Toshiyoshi, and Hiroyuki Fujita., TRANSDUCERS '99, June 7-10, 1999, Sendai, Japan, pp. 332-335.
SBG	Self Aligned Vertical Mirrors and V-Grooves Applied to a Self-Latching Matrix Switch for Optical Networks, Philippe Hélin, Makoto Mita, and Hiroyuki Fujita, IEEE MEMS 2000, 23-27 Jan. 2000, pp. 467-472.
SBG	Tunable Micromirror Switches Using (110) Silicon Wafer, Kyoung-Sun Seo, Young-Ho Cho and Sung-Kie Youn, MHS'96 Proceedings of the Seventh International Symposium on Micro Machine and Human Science, Technical Session A-1, Microfabrication, Nagoya Municipal Industrial Research Institute, Library of Congress Number: 96-77510, pp. 73-77.

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EXAMINER <i>Scott B. D.</i>	DATE CONSIDERED <i>5/8/03</i>
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IDS #3

SHEET 1 OF 2

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UMACH.003A	APPLICATION NO. 09/843,025
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		O I P E AUG 02 2001 RECEIVED TECHNOLOGY CENTER 2829 AUG - 7 2001	
(USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Chiu, et al.	
		FILING DATE April 25, 2001	GROUP 2829

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
SBG	4,986,244	5/31/90	Murakami, et al.	1	1	
SBG	5,322,258	6/21/94	Bosch, et al.	1	1	
SBG	5,308,041	3/14/95	Kimura, et al.	1	1	
SBG	5,561,099	3/26/96	Loosman, et al.	1	1	
SBG	6,557,132	9/17/98	Takahashi	1	1	
SBG	6,629,910	5/13/97	Ho, et al.	1	1	
SOP	5,724,016	3/3/98	Tai, et al.	1	1	
SBG	5,872,490	2/16/99	Asada, et al.	1	1	
SBG	6,130,242	10/24/00	Mastrangelo, et al.	1	1	

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
SBG	Integrated Polyimide Micro Electro Mechanical Systems (MEMS), doctoral thesis of Xuan Qi Wang from California Institute of Technology, Pasadena, California, 2000, pages 1-14.
SBG	"Self-Aligned Vertical Mirrors and V-Grooves Applied to a Self-Latching Matrix Switch for Optical Networks," Philippe Hellin, et al., MEMS '00, pp. 467-472, 2000.
SBG	"Optical and Surface Characterization of Poly-Si Replica Mirrors for an Optical Fiber Switch," Makoto Mita, et al., Transducers '99, pp. 332-335, 1999.

EXAMINER	<i>S. B. D.</i>	DATE CONSIDERED	<i>5/8/03</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT AUG 02 2001 (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Chiu, et al.	RECEIVED AUG 1 2001 TECHNOLOGY CENTER PATENT & TRADEMARK OFFICE
	FILING DATE April 25, 2001	GROUP 2842 2829

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
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## FOREIGN PATENT DOCUMENTS

EXAMINER  
INITIAL

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

SBG

Free-Space Micromachined Optical Switches for Optical Networking," L.Y. Lin and R.W. Tkach, IEEE J. of Sel. Topics in Quantum Electronics, vol. 5, January/February 1999.

SBG

*"Microactuators with Moving Magnets for Linear, Tensional or Multiaxial Motion," B. Wagner, et al., Sensors and Actuators, vol. 4, pp. 595-603, 1992.*

EXAMINER	<i>MBG</i>	DATE CONSIDERED	5/8/03
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